PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner **US Department of Commerce** United States Patent and Trademark

Office, PCT 2011 South Clark Place Room

CP2/5C24 Arlington, VA 22202

ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

23 November 2000 (23.11.00)

International application No.

PCT/SE00/00834

International filing date (day/month/year) 03 May 2000 (03.05.00)

Applicant's or agent's file reference

H 2156-1 WO

Priority date (day/month/year) 03 May 1999 (03.05.99)

Applicant

LINSCHOTEN, Marcel et al

	The designated Office is hereby notified of its election made:
•	•
	X in the demand filed with the International Preliminary Examining Authority on:
	26 October 2000 (26.10.00)
	in a notice effecting later election filed with the International Bureau on:
<u>?</u> .	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

F. Baechler

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

SE0000834

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

31/662, 31/44, 31/445 (81) International Application Number: PCT/SE00/00846 122) International Filing Date: 3 May 2000 (03.05.00) 3 May 2000 (03.05.00) 3 May 2000 (03.05.00) 5 EB, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DB, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, 1 IN, IS, IP, KE, KG, KC, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MX, NX, NO, NZ, PL, PRO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TI, TI, TI, TI, TI, TI, TI, TI, TI	51) International Patent Classification 7:		(11) International Publication Number: WO 00/66550
BG, BR, BY, CA, CH, CN, CR, CU, CD, ED, DR, DR, DR, DR, DR, DR, DR, DR, DR, D	C07D 9/38, 213/54, 211/34, A61K 31/662, 31/44, 31/445	A1	(43) International Publication Date: 9 November 2000 (09.11.00
(54) Title: NEW COMPOUNDS R1 X R2 R3 (1) R57) Abstract The present invention relates to compounds of Formula (I), and pharmaceutically acceptable salts or solvates thereof, or solvate such salts, which compounds inhibit carboxypeptidase U and thus can be used in the prevention and treatment of diseases associated a carboxypeptidase U. In further aspects, the invention relates to compounds of the invention for use in therapy; to processes for preparatio such new compounds; to pharmaceutical compositions containing at least one compound of the invention, or a pharmaceutically accept salt or solvate thereof, as active ingredient; and to the use of the active compounds in the manufacture of medicaments for the medical	22) International Filing Date: 3 May 2000 (30) Priority Data: 9901572-9 3 May 1999 (03.05.99) 71) Applicant (for all designated States except USTRAZENECA AB [SE/SE]; S-151 85 Södertälje 72) Inventors; and 75) Inventors/Applicants (for US only): LINSCHOTE [NL/SE]; AstraZeneca R & D Mölndal, S-431 8 (SE). POLLA, Magnus [SE/SE]; AstraZeneca Mölndal, S-431 83 Mölndal (SE). 74) Agent: ASTRAZENECA AB; Global Intellectual	(03.05.00 S): A: (SE).	BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, II IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PJ RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasia patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Europea patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GI IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CI CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt
(57) Abstract The present invention relates to compounds of Formula (I), and pharmaceutically acceptable salts or solvates thereof, or solvate such salts, which compounds inhibit carboxypeptidase U and thus can be used in the prevention and treatment of diseases associated carboxypeptidase U. In further aspects, the invention relates to compounds of the invention for use in therapy; to processes for preparation such new compounds; to pharmaceutical compositions containing at least one compound of the invention, or a pharmaceutically accept salt or solvate thereof, as active ingredient; and to the use of the active compounds in the manufacture of medicaments for the medical	54) Title: NEW COMPOUNDS		
The present invention relates to compounds of Formula (I), and pharmaceutically acceptable salts or solvates thereof, or solvate such salts, which compounds inhibit carboxypeptidase U and thus can be used in the prevention and treatment of diseases associated carboxypeptidase U. In further aspects, the invention relates to compounds of the invention for use in therapy; to processes for preparatio such new compounds; to pharmaceutical compositions containing at least one compound of the invention, or a pharmaceutically accept salt or solvate thereof, as active ingredient; and to the use of the active compounds in the manufacture of medicaments for the medical		X Y R4	
such salts, which compounds inhibit carboxypeptidase U and thus can be used in the prevention and detained to detect a carboxypeptidase U. In further aspects, the invention relates to compounds of the invention for use in therapy; to processes for preparatio such new compounds; to pharmaceutical compositions containing at least one compound of the invention, or a pharmaceutically accept salt or solvate thereof, as active ingredient; and to the use of the active compounds in the manufacture of medicaments for the medical			
	(57) Abstract		
	The present invention relates to compounds of For such salts, which compounds inhibit carboxypeptidase U carboxypeptidase U. In further aspects, the invention relat such new compounds; to pharmaceutical compositions con salt or solvate thereof, as active ingredient; and to the us	and the	s can be used in the prevention and technical of the invention for use in therapy; to processes for preparation of the invention, or a pharmaceutically accepta
	The present invention relates to compounds of For such salts, which compounds inhibit carboxypeptidase U carboxypeptidase U. In further aspects, the invention related to the word of the compounds; to pharmaceutical compositions consult or solvate thereof, as active ingredient; and to the us	and the	s can be used in the prevention and technique of the invention for use in therapy; to processes for preparation of the invention, or a pharmaceutically accepta

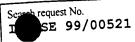
PATENT COOPERATION TREATY
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INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

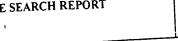
National application No. 9901573-7	Country or Office o	f filing	Applicant's or agent's file reference H 2156-1 SE					
Filing date (day/month/year)		(Earliest) Priority	Date (day!month year)					
3 May 1999								
Applicant		1						
Astra Aktiebolag								
Date of request for international-type search								
3 May 1999		SE 99/00521						
This international-type search report h to the applicant. This international-type search report control in the search report of the se	onsists of a total of _	5 sheets. document cited in t						
2. Unity of invention is lacking (See Box 11).							
3. The international application international-type search was			r amino acid sequence listing and the listing					
☐ file	d with the internation	al application.						
furn		-	he international application,					
:	but not according matter going	mpanied by a staten beyond the disclosu	nent to the effect that it did not include are in the international application as filed.					
trai	nscribed by this Auth	ority.	٠.					
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INTERNATIONAL-TYPE SEARCH REPORT



	· · · · · · · · · · · · · · · · · · ·	tion of item 1 of first sheet)
ox I	Observations where certain claims were found unsearchable (Continual	os for the following reasons:
his interna	ational-type search report has not been established in respect of certain claim	no to: 1110 - 11
. 🛛 (Claims No.: 12 because they relate to subject matter not required to be searched by this Authorates they relate to subject matter not required to be searched by this Authorates they relate to subject matter not required to be searched by this Authorates they relate to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to subject matter not required to be searched by this Authorates they related to the search of the	hority, namely:
2. 🔀	Claims No.: 1-11 and 13 because they relate to parts of the national application that do not comply with to such an extent that no meaningful international-type search can be carried see next page	vith the prescribed requirements ed out, specifically:
	Observations where unity of invention is lacking (Continuation of ite	em 2 of first sheet)
Box II	Observations where unity of invention is lacking (Continuation of its serial continuation) of its serial continuation of its seri	as follows:
		this international-type
1. <u></u>	As all required additional search fees were timely paid by the applicant, the search report covers all searchable claims. As all searchable claims could be searched without effort justifying an addition of invite payment of any additional fee. As only some of the required additional search fees were timely paid by type search report covers only those claims for which fees were paid, specific and the search report covers only those claims for which fees were paid, specific and the search report covers only those claims for which fees were paid, specific and the search report covers only those claims for which fees were paid, specific and the search report covers only those claims for which fees were paid, specific and the search report covers only those claims for which fees were paid, specific and the search report covers only those claims.	additional fee, this Authority
4. [No required additional search fees were timely paid by the applicant. C scarch report is restricted to the invention first mentioned in the claims	Consequently, this international-type s, it is covered by claims No.:
Rer	mark on Protest The additional search fees were accompanied the payment o	npanied by the applicant's protest. of additional search fees.

INTERNATIONAL-TYPE SEARCH REPORT



International application No.

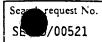
E 99/00521

Supplem	ental	Box

(To be used when the space in any of the preceding boxes is not sufficient)

The expression in the claims "any carboxylic acid isostere" is unclear and defined in terms of the result to be achieved. The claims further contain unclear expressions such as "alifatic heterocyclic group", "alifatic carbocyklic group", "heterocyclic group" and "carbocyklic group". Due to these deficiencies and because the claims contain a great number of known compounds, claims 1-11 and 13 have not been fully searched. According to Article 6, the claims shall be clear and concise.

INTERNATIONAL-TYPE SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07D 211/34, C07D 213/54, C07D 213/73, C07D 213/54, A61K 31/44, A61K 31/445 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: CO7D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 1393338 A (RECHERCHES PHARMACEUTIQUES ET SCIENTIFIQUES), 15 February 1965 (15.02.65)	1-10,13
	- -	
X	US 3091569 A (AARON LEONARD SHEFFNER), 28 May 1963 (28.05.63)	1-4,6-10,13
X	US 5254579 A (STEFANO POLI ET AL), 19 October 1993 (19.10.93)	1-4,6-10,13
X	DE 3838467 A1 (AGFA-GEVAERT AG), 17 May 1990 VV (17.05.90)	1-8
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Special categories of cited documents:		"T" later document published after the international filing date or priori date and not in conflict with the application but cited to understand			
"A"	"A" document defining the general state of the art which is not considered to be of particular relevance		the principle or theory underlying the invention		
"E" erlier document but published on or after the international filing date		"X" document of particular relevance: the claimed invention cannot			
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	considered novel or cannot be considered to involve an inventive step when the document is taken alone			
	special reason (as specified)	"Y"			
"O"	means		considered to involve an inventive step when the document is combined with one or more other such documents, such combinate		
P			being obvious to a person skilled in the art		
	the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international-type search		Date of mailing of the international-tupe search report 2000 -02- 1 1			
9	February 2000		2000 -02- 1 1		
	February 2000 ne and mailing address of the ISA/	Autho	prized officer		
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• INTERNATIONAL-TYPE SEARCH REPORT

	Si	/00521
	TOO SUPERIOR TO BE RELEVANT	
(Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant	nt passages Relevant to claim No.
ategory*	EP 0300100 A1 (MORGAN, LEE ROY), 25 January 198 (25.01.89)	1
X	 FR 2266502 A (SYNPHARM), 31 October 1975	1-4,6-10,13
Χ.	(31.10.75) FR 2430945 A (LABORATOIRES CHAUVIN-BLACHE),	1-4,6-10,13
	FR 2430945 A (LABORATOTINE 8 February 1980 (08.02.80) GB 1593469 A (HISAMITSU PHARMACEUTICAL CO.),	1-3,6-10,13
X	15 July 1981 (15.07.01)	1-3,6-10,13
X	US 3766206 A (HANS-JURGEN E. HESS ET AL), 16 October 1973 (16.10.73)	
	·	

INTERNATIONAL-TYPE SEARCH REPORT Information on pate pily members

02/12/99 SE



				NONE	
FR	1393338	A 	15/02/65	NONE	
US	3091569	A	28/05/63	NONE	
US	5254579	Α	19/10/93	EP 0515995 A ES 2052484 T GR 93300007 T IT 1249650 B IT MI911470 D	02/12/92 16/07/94 28/04/93 09/03/95 00/00/00
DE	3838467	A1	17/05/90	NONE	
EP	0300100	A1	25/01/89	CA 1333179 A US 4708965 A US 4827016 A	22/11/94 24/11/87 02/05/89
FR	2266502	Α	31/10/75	NONE	
FR	2430945	A	08/02/80	NONE	
GB	1593469	A	15/07/81	AR 222304 A AR 223317 A AT 358006 B AT 358007 B AU 519919 B AU 3500378 A CA 1111862 A CA 1125304 A CH 633251 A DE 2818879 A ES 469313 A ES 469314 A FR 2394514 A IT 7849127 D JP 54005949 A MX 5006 E NL 7804192 A SE 7806433 A US 4228304 A ZA 7802228 A	15/05/81 14/08/81 11/08/80 07/01/82 18/10/79 03/11/81 08/06/82 30/11/82 18/01/79 01/10/79 01/01/80 12/01/79 00/00/00 17/01/79 09/02/83 19/12/78 17/12/78 14/10/80 25/04/79
US	37662	 06 A	16/10/73	US 3859328 A	07/01/7



INTERNATIONAL SEARCH REPORT

PCT/SE00/00834

	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet).
Box I	Observations where
This inter	mational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
ı. 🛛	Claims Nos.: 16-17 because they relate to subject matter not required to be searched by this Authority, namely: A method for treatment fo the human or animal body by therapy, see rule 39.1
2. 🛛	Claims Nos.: 1-4, 6-15 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: see next sheet
3. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).:
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet) ternational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. <u></u>	searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. [No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rem	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International application No.
PCT/SE 00/00834

	PC1/3E	00/00834					
A. CLASSIFICATION OF SUBJECT MATTER							
IPC7: CO7D 211/34, CO7D 213/54, CO7D According to International Patent Classification (IPC) or to be	213/73, A61K 31/44, A61	K 31/445					
According to International Patent Classification (IPC) or to oc B. FIELDS SEARCHED	I HARVIII						
Minimum documentation searched (classification system follow	d by classification symbols)						
-207							
IPC7: C07D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
SE,DK,FI,NO classes as above							
Electronic data base consulted during the international search	name of data base and, where practical	ble, search terms used)					
Electronic data base constitute contra							
C. DOCUMENTS CONSIDERED TO BE RELEVA	ντ						
Category* Citation of document, with indication, whe	appropriate, of the relevant pass	ages Relevant to claim No.					
5							
}							
}							
Further documents are listed in the continuation	of Box C. See patent fa						
Special categories of cited documents:	date and not in continct	d after the international filing date or priority with the application but cited to understand					
"A" document defining the general state of the art which is not co	adered the principle or theory to	macriying the invention cannot be					
"E" erher document but published on or after the international in	considered novel of call th is den when the document	is taken alone					
"L" document which may throw doubts on priority databases of cited to establish the publication date of another citation or of special reason (as specified)	her "Y" document of particular:	relevance: the claimed invention cannot be					
"O" document referring to an oral disclosure, use, exhibition or o	combined with one of a						
means "P" document published prior to the international filing date but the priority date claimed	document member of the	ne same patent family					
Date of the actual completion of the international search Date of mailing of the international search							
	30 -08-	2000					
24 August 2000	Authorized officer						
Name and mailing address of the ISA/ Swedish Patent Office	1	h					
Box 5055, S-102 42 STOCKHOLM	Göran Karlsson/g Telephone No. +468	Telephone No. + 46 8 782 25 00					
Facsimile No. +46 8 666 02 86	مستور والمستور والم والمستور والمستور والمستور والمستور والمستور والمستور والمستور و						

Form PCT/ISA/210 (continuation irst sheet(1)) (July1992)

INTERNATIONAL SEARCH REPORT

International application N . PCT/SE00/00834

The present claims 1-4 and 6-15 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds. claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. No special search effort can be made for searching unduly wide and speculative claims (PCT Search Guidelines C-III 3.7).

Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely claim 5.

The applicants attention is drawn to the fact that claims relating to inventions in which no international search report has been established will not be the subject of an international preliminary examination (Rule 66.1(e) PCT). This is the case irrespective of whether or not the claims are amended following receipt of the search report during any Chapter II procedure.

PATENT COOPERATION TREATY



REC'D 1 2 JUL 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORTIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FOR FURTHER ACTION See Notification of Transmittal of International								
H 2156-1 WO	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/4						
International application No.	International filing date (day/month/year)		Priority date (day/month/year)					
PCT/SE00/00834	03.05.2000		03.05.1999					
International Patent Classification (IPC) o	International Patent Classification (IPC) or national classification and IPC7							
CO7D 211/34, CO7D 213/54, CO7D 213/73, A61K 31/44, A61K 31/445								
Applicant								
AstraZeneca AB et al	***							
-								
This international preliminary exa Authority and is transmitted to the	mination report has been prepare applicant according to Article	red by this Inte 36.	mational Preliminary Examining					
2. This REPORT consists of a total of	of 5 sheets, inclu	ding this cover	sheet.					
been amended and are the b	nied by ANNEXES, i.e., sheets asis for this report and/or sheets 607 of the Administrative Instr	containing rec	ion, claims and/or drawings which have stifications made before this Authority the PCT).					
These annexes consist of a total of	sheets.							
3. This report contains indications re-	lating to the following items:							
I Basis of the report								
II Priority								
III Non-establishment of	opinion with regard to novelty,	inventive step	and industrial applicability					
IV Lack of unity of inver	ntion							
V Reasoned statement u	nder Article 35(2) with regard to ions supporting such statement	o novelty, inve	entive step or industrial applicability;					
VI Certain documents cit	-							
VII Certain defects in the	international application							
VIII Certain observations of	on the international application							
Date of submission of the demand	Date	of completion	of this report					
26.10.2000 19.06.2001								
Name and mailing address of the IPEA/SE	Autho	orized officer						
Patent- och registreringsverket Bon 5055	Telex							
S-102 42 STOCKHOLM	17978 PATOREG-S GÖr	an Karl	sson/BS					
Facsimile No. 08-667 72 88 Form PCT/IPFA/409 (cover sheet) (Januar	Facsimile No. 08-667 72 88 Telephone No. 08-782 25 00							

	the report	
With regar	rd to the elements of the international	application:*
the the	international application as originally	y filed
the	description:	, as originally filed
pag		, filed with the demand
paş	_	
pag	ges	, filed with the letter of
the	e claims:	as originally filed
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pas	ges	, as amended (logenter with any , filed with the demand
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the inter	rnational application was filed, timess lements were available or furnished to the language of a translation furnished	o this Authority in the following language which is. If or the purposes of international search (under Rule 23.1(b)).
the inter These el	rnational application was fried, timess lements were available or furnished to the language of a translation furnished	o this Authority in the following language for the purposes of international search (under Rule 23.1(b)).
the inter These el	lements were available or furnished to the language of a translation furnished the language of publication of the intended the language of the translation furnished to 55.3).	o this Authority in the following language I for the purposes of international search (under Rule 23.1(b)). Tractional application (under Rule 48.3(b)). The formational application (under Rule 48.3(b)). The formational application (under Rules 55.2 and/or application) application, the international application, the international
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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
the entire international application,					
claims Nos. 1-4, 6-17					
because:					
the said international application, or the said claims Nos. 16-17 relate to the following subject matter which does not require an international preliminary examination	(specify):				
A method for treatment of the human or animal body by t (PCT Rule 67.1 (iv)).	herapy				
the description, claims or drawings (indicate particular elements below) or said claims Nos. 1-4 are so unclear that no meaningful opinion could be formed (specify):					
The present claims 1-4 and 6-15 relate to an extreme number of possible compounds. Support within the meaning of A Article 6 PCT and disclosure within the meaning of A PCT is to be found, however, for only a very small prof the compounds claimed. In the present case, the clack support, and the application so lacks disclosure meaningful search over the whole of the claimed simpossible. No special search effort can be made for sunduly wide and speculative claims (PCT Search Guide III 3.7).	rticle 5 coportion laims so , that a scope is searching				
	/				
the claims, or said claims Nos.	nadequately supported				
by the description that no meaningful opinion could be formed.					
no international search report has been established for said claims Nos.					
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleot sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:	ide and/or amino acid				
the written form has not been furnished or does not comply with the standard.					
the computer readable form has not been furnished or does not comply with the standard.					

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III

Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely claim 5.

No relevant prior art has been found for the compounds according to claim 5. This claim is therefore considered to fulfil the requirements of novelty, inventive step and industrial applicability.

INTERNATIONAL PREI ARY EXAMINATION REPORT

ĺ	International application No.					
	PC/SE00/00834					

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims Claims	5	YES NO	
	Inventive step (IS)	Claims Claims	5	YES NO	
	Industrial applicability (IA)	Claims Claims	5	YES NO	

2. Citations and explanations (Rule 70.7)

The present claims 1-4 and 6-15 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. No special search effort can be made for searching unduly wide and speculative claims (PCT Search Guidelines C-III 3.7).

Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely claim 5.

No relevant prior art has been found for the compounds according to claim 5. This claim is therefore considered to fulfil the requirements of novelty, inventive step and industrial applicability.



REQUEST

The undersigned requests that the present

-	- For rec	Office use	only —
International App	ication No.		
International Filin	g Date		

international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"				
	Applicant's or agent's file reference (if desired) (12 characters maximum) H 2156-1 WO				
Box No. I TITLE OF INVENTION					
NEW COMPOUNDS					
Box No. II APPLICANT					
Name and address: (Family name followed by given name; for designation. The address must include postal code and name of address indicated in this Box is the applicant's State (that is, court of residence is indicated below.)	r a legal entity, full official country. The country of the ntry) of residence if no State This person is also inventor.				
AstraZeneca AB	Telephone No. +46 8 553 260 00				
S-151 85 Södertälje	Facsimile No.				
Sweden	+46 8 553 288 20				
	Teleprinter No.				
State (that is, country) of nationality: SE	State (that is, country) of residence:				
	nated States except the United States the States indicated in the States of America only the Supplemental Box				
Box No. III FURTHER APPLICANT(S) AND/OR (FU	RTHER) INVENTOR(S)				
Name and address: (Family name followed by given name; for designation. The address must include postal code and name of address indicated in this Box is the applicant's State (that is, cour of residence is indicated below.) LINSCHOTEN, Marcel AstraZeneca R&D Mölndal S-431 83 Mölndal Sweden	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality: NL	State (that is, country) of residence: SE				
This person is applicant for the purposes of: all designated all design the Unite	the United States except ded States of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated on a continuation sheet.					
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE					
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:					
Name and address: (Family name followed by given name; for designation. The address must include posta	or a legal entity, full official al code and name of country.) +46 8 553 260 00				
Global Intellectual Property, Patents	Facsimile No.				
AstraZeneca AB S-151 85 Södertälje	+46 8 553 288 20				
Sweden					
	Teleprinter No.				
Address for correspondence: Mark this check-box whe	re no agent or common representative is/has been appointed and the				

Sheet No. 2

Continuation of Box No. III FEEDER APPLICANT(S) AND/OR (FURTHER) IN OR(S)						
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.) POLLA, Magnus AstraZeneca R&D Mölndal S-431 83 Mölndal Sweden	legal entity, full official nity. The country of the of residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)					
State (that is, country) of nationality: SE	State (that is, country) of residence:					
This person is applicant for the purposes of: all designated the United States all designated the United States	States except the United States the States indicated in the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a ladisignation. The address must include postal code and name of court address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) SVENSSON, Peder AstraZeneca R&D Mölndal S-431 83 Mölndal Sweden	regal entity, full official above. The country of the of residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)					
State (that is, country) of nationality:	State (that is, country) of residence: SE					
This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a le designation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)					
State (that is, country) of nationality:	State (that is, country) of residence:					
This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a le designation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	regal entity, full official try. The country of the of residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)					
State (that is, country) of nationality:	State (that is, country) of residence:					
This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated on another continuation sheet.						

	No.						
	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked).						
Regional Patent							
X	AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT						
		Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT					
		European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany. DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT					
X	OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)						
No	tions	I Patent (if other kind of protection or treatment desired, spec	rify o	n dotte	ed line).		
		United Arab Emirates	_		Liberia		
M	AL	Albania	=		Lesotho		
X	AM	Armenia	=		Lithuania		
		Austria	_		Luxembourg		
		Australia			Latvia		
		Azerbaijan			Morocco		
X	BA	Bosnia and Herzegovina			Republic of Moldova		
		Barbados			Madagascar		
X	BG	Bulgaria			The former Yugoslav Republic of Macedonia		
X	BR	Brazil					
		Belarus	X	MN	Mongolia		
		Canada			Malawi		
_		and LI Switzerland and Liechtenstein			Mexico		
		China	_		Norway		
		Costa Rica			New Zealand		
		Cuba	_	PL	Poland		
			=		Portugal		
		Czech Republic	_	PT			
		Germany	=		Romania		
		Denmark			Russian Federation		
		Dominica		SD	Sudan		
_		Estonia		SE	Sweden		
	ES			SG	Singapore		
		Finland	_	SI	Slovenia		
X	GB	United Kingdom	X] SK	Slovakia		
		Grenada] SL	Sierra Leone		
		Georgia	X] TJ	Tajikistan		
		Ghana	X		Turkmenistan		
_		I Gambia	X	TR	Turkey		
		Croatia		TT	Trinidad and Tobago		
		Hungary	X	TZ	United Republic of Tanzania		
	ID	Indonesia	=	UA	Ukraine		
_	IL	Israel	=	UG	Uganda		
_	IN	India	=	US	United States of America		
_	IS	Iceland	شده	_ 55			
=		Japan	ΙĀ	UZ			
	JP			VN	Viet Nam		
	KE	Kenya		YU	Yugoslavia		
	KG	Kyrgyzstan		=	South Africa		
X	KP	Democratic People's Republic of Korea		ZA			
					Zimbabwe		
		Republic of Korea	C h	neck-	boxes reserved for designating States which have party to the PCT after issuance of this sheet:		
X	ΚZ	Kazakhstan	_				
	LC	Saint Lucia	K		Algeria		
X	LK	Sri Lanka		_	Antigua and Barbuda		
٦_					de above the applicant also makes under Rule 4 9(h) all other		

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet No. PRIORITY CLA Box No. VI Further priority claim e indicated in the Supplemental Box. Number Filing date Where earlier application is: of earlier application of earlier application national application: regional application:* international application: (day/month/year) country regional Office receiving Office item (1) 03 May 1999 9901573-7 Sweden (SE) (03.05.1999)item (2) item (3) The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): (1) * Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box. INTERNATIONAL SEARCHING AUTHORITY Choice of International Searching Authority (ISA) Request to use results of earlier search; reference to that search (if an earlier (if two or more International Searching Authorities are competent to carry out the international search, indicate search has been carried out by or requested from the International Searching Authority): the Authority chosen; the two-letter code may be used): Date (day/month/year) Number Country (or regional Office) 09 February 2000 SE99/00521 ISA/ SE Sweden (SE) Box No. VIII CHECK LIST; LANGUAGE OF FILING This international application contains This international application is accompanied by the item(s) marked below: the following number of sheets: 1. X fee calculation sheet 2.

separate signed power of attorney description (excluding 94 3. 🔀 copy of general power of attorney; reference number, if any: GF1189/2000 sequence listing part) claims : 7 4.

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